



FPD Materials & Components Japan TC Chapter

Meeting Summary and Minutes

Japan Standards Winter 2019 Meetings

Friday, February 8, 2019, 14:30-17:00

SEMI Japan office, Tokyo, Japan

TC Chapter Announcements

Japan Standards Spring 2019 Meetings

To be held jointly with FPD Met

Friday, May 31, 2019, Time: 14:30-17:00

SEMI Japan office, Tokyo, Japan

Table 1 Meeting Attendees

Co-Chairs: Tadahiro Furukawa (Yamagata University) / Yoshi Shibahara (FUJIFILM)

SEMI Staff: Chie Yanagisawa

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
FUJIFILM	Shibahara	Yoshi	Yamagata University	Furukawa	Tadahiro
HOYA	Ihara	Hirofumi	Teijin	Ito	Haruhiko
NIPPON STEEL Chemical & Material	Nakatsuka	Jun			
Nitto Denko	Tatsumi	Motoshige	SEMI Japan	Yanagisawa	Chie

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>	<i>A&R Forms for Approved Ballots</i>
6410	Line Item Revision to SEMI D67-0212: "Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials" with title change to "Test Method for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials"	/	
Line Item 1	Correction of non-conforming title in accordance with Procedure Manual Appendix 4	Passed as balloted	/
Line Item 2	Several sections are re-formatted as to meet the requirement which is specified section 3.2 of Procedure Manual.	Passed as balloted	/

Note 1: **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

Note 2: **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Activities Approved by the GCS between meetings of the TC Chapter

#	Type	SC/TF/WG	Details
None			

Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

#	Type	SC/TF/WG	Details
6494	SNARF	FPD Color Filter	Line item Revision to SEMI D19-0305 (Reapproved 0412): "Test Method for The Determination of Chemical Resistance of Flat Panel Display Color Filters"
6495	SNARF	FPD Color Filter	Line Item Revision to SEMI D45 - 0706 (Reapproved 0412) "Measurement Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter", with title change to "Test Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter"

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

Table 7 Authorized Ballots

#	When	TF	Details
6494	Cycle 3-2019	FPD Color Filter	Line Item Revision to SEMI D19-0305 (Reapproved 0412): "Test Method for The Determination of Chemical Resistance of Flat Panel Display Color Filters"
6495	Cycle 3-2019	FPD Color Filter	Line Item Revision to SEMI D45 - 0706 (Reapproved 0412) "Measurement Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter", with title change to "Test Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter"

Table 8 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
None			

Table 9 SNARF(s) Abolished

#	TF	Title
6408	Polarizing Film TF	Line Item Revision to SEMI D46-0213: "Terminology for FPD Polarizing Films" <i>This SNARF is withdrawn because when Doc 6408 started on May 11, 2018, initially considered as Line Item Revision to SEMI D46-0213, however, a new SNARF for major revision will be proposed later.</i>

Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 11 New Action Items

Item #	Assigned to	Details
20190208-01	SEMI Staff	to distribute a new SNARF for Revision to D46-0213 for two weeks TC member review and forward it to the GCS members for approval and for authorization for the ballot submission.
20190208-02	SEMI Staff	to submit Ballot of Line Item Revision to SEMI D19-0305 (Reapproved 0412) and Ballot of Line Item Revision to SEMI D45-0706 (Reapproved 0412) for Cycle 3-2019

Table 12 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
20181012-01	Tadahiro Furukawa (Yamagata University)	To review SEMI D19 and SEMI D45 further if it requires any action on them or not. =>CLOSED

1 Welcome, Reminders, and Introductions

Tadahiro Furukawa (Yamagata University), co-chair, called the meeting to order at 14:30. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_SEMI Standards Required Elements_August2018_E+J

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting for FPD Materials & Components.

Motion:	To approve the minutes of the previous meeting for FPD Materials & Components as written.
By / 2nd:	Yoshi Shibahara (FUJIFILM) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

Attachment: 02_20181012_FPD-M&C_Japan_MeetingMinutes_Final

3 Liaison Reports

3.1 FPD Metrology Korea TC Chapter

Chie Yanagisawa (SEMI Japan) reported for FPD Metrology Korea TC Chapter as attached material.

- Doc. 6351: “New Standard, Specification for Viewing Angle of Flat Panel Displays”
 - Ballot 6351B failed
 - Ballot 6351C to be submitted for Cycle 1-2019

Attachment: 03_KR_FPDM_2019_Feb

3.2 FPD Metrology Taiwan TC Chapter

Chie Yanagisawa (SEMI Japan) reported for FPD Metrology Taiwan TC Chapter as attached material.

- Doc.6104: “New Standard: Practice for Calibrating Automated Optical Inspection System in Front-of-View Foldable OLED Display Devices” by Flexible Displays TF was decided to abolish.

Attachment: 04_FPD TW Liaison Report_20181221

3.3 SEMI Staff Report

Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report as attached. Items are:

- SEMI Global 2019 Calendar of Events

- Global Standards Meeting Schedule
- 2019 Critical Dates for SEMI Standards Ballots
- A&R Ballot Review
- SEMI Standards Publications
- Standards Topics for SEMI Japan E-mail Newsletter

Attachment: 05_SEMI Staff Report 2019_0205 v1.0a

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 6410: Line Item Revision to SEMI D67-0212: “Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials” with title change to “Test Method for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials”

4.1.1 Line Item 1: Correction of non-conforming title in accordance with Procedure Manual Appendix 4

4.1.2 Line Item 2: Several sections are re-formatted as to meet the requirement which is specified section 3.2 of Procedure Manual.

Attachment: 06_#6410_BallotReport

5 Subcommittee and Task Force Reports

5.1 Flexible Display Task Force

Tadahiro Furukawa (Yamagata University) reported for the Flexible Display Task Force as follows.

- Ballot #5977B: New Standard: Test Method for Water Vapor Barrier Property for Plastic Films with High Barrier for Electronic Devices
 - Published as SEMI D78-1018
- Ballot #6409: Line Item Revision to SEMI D66-0212: Terminology for Plastic Substrates of Flexible Display
 - Passed A&R in December 2019

5.2 FPD Color Filter Task Force

Tadahiro Furukawa (Yamagata University) reported for the FPD Color Filter Task Force as follows.

- Ballot #6406: Line Item Revision to SEMI D29-1101 (Reapproved 1113): Test Method for Heat Resistance in Flat Panel Display (FPD) Color Filters
 - Passed A&R in December 2019.
- Ballot #6407: Line Item Revision to SEMI D30-0707 (Reapproved 1113): Test Method for Light Resistance in Flat Panel Display (FPD) Color Filters
 - Passed A&R in December 2019.
- New SNARFs for Line Item Revision to be proposed for D19 and D45 respectively at the New Business section of this meeting.

5.3 FPD Mask Task Force

Hirofumi Ihara (HOYA) reported that there has been no activity.

5.4 Polarizing Film Task Force

Motoshige Tatsumi (Nitto Denko) reported for the Polarizing Film Task Force as follows.

- Withdrawal of SNARF #6408 to be proposed at New Business of this meeting because when it started on May 11, 2018, initially considered as Line Item Revision to SEMI D46-0213, however, a new SNARF for major revision will be proposed to get GCS approval after two weeks TC member review
- Doc. 6410: Line Item Revision to SEMI D67-0212: Test Methods for Antifouling Property and Chemical Resistance of FPD Polarizing Films and Its Materials
 - Ballot results were reviewed, and the tow line items passed at the Ballot Review section of this meeting.

Action Item 20190208-01: SEMI Staff to distribute a new SNARF for Revision to D46-0213 for two weeks TC member review and forward it to the GCS members for approval and for authorization for the ballot submission.

6 Old Business

6.1 5-Year Review from the previous meeting

The TC Chapter reviewed the document list and the action will be mentioned or proposed if any at the New Business section later of this TC Chapter meeting.

7 New Business

7.1 Doc. 6408: Line Item Revision to SEMI D46-0213: “Terminology for FPD Polarizing Films”

Motoshige Tatsumi (Nitto Denko) addressed the committee on this topic and he made a proposal as follows. The reason for withdrawal of this SNARF was explained as in “5.4 Polarizing Film Task Force” Report above.

Motion:	To withdrawal #6408 SNARF for Line Item Revision to SEMI D46-0213
By / 2nd:	Motoshige Tatsumi (Nitto Denko) / Yoshi Shibahara (FUJIFILM)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

7.2 Proposal for New SNARFs and Ballot Submission

7.2.1 SEMI D19-0305 (Reapproved 0412): “Test Method for The Determination of Chemical Resistance of Flat Panel Display Color Filters” by Color Filter TF

Tadahiro Furukawa (Yamagata University) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve the SNARF for Line Item Revision to SEMI D19-0305 (Reapproved 0412): “Test Method for The Determination of Chemical Resistance of Flat Panel Display Color Filters”
By / 2nd:	Tadahiro Furukawa (Yamagata University) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

He continued as follows.

Motion:	To authorize this ballot submission for Cycle 3-2019
By / 2nd:	Tadahiro Furukawa (Yamagata University) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

7.2.2 SEMI D45-0706 (Reapproved 0412) “Measurement Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter” by Color Filter TF

Tadahiro Furukawa (Yamagata University) addressed the committee on this topic and he made a proposal as follows.

Motion:	To approve the SNARF for Line Item Revision to SEMI D45-0706 (Reapproved 0412) “Measurement Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter”, with title change to “Test Methods for Resistance of Resin Black Matrix with High Resistance for FPD Color Filter”
By / 2nd:	Tadahiro Furukawa (Yamagata University) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

He continued as follows.

Motion:	To authorize this ballot submission for Cycle 3-2019
By / 2nd:	Tadahiro Furukawa (Yamagata University) / Hirofumi Ihara (HOYA)
Discussion:	None
Vote:	5 in favor and 0 opposed. Motion passed.

Action Item 20190208-02: SEMI Staff to submit Ballot of Line Item Revision to SEMI D19-0305 (Reapproved 0412) and Ballot of Line Item Revision to SEMI D45-0706 (Reapproved 0412) for Cycle 3-2019

8 Action Item Review

8.1 Open Action Items

None

8.2 New Action Items

The committee reviewed the following items.

Action Item 20190208-01: SEMI staff to distribute a new SNARF for Revision to D46-0213 for two weeks TC member review and forward it to the GCS members for approval and for authorization for the ballot submission.

Action Item 20190208-02: SEMI Staff to submit Ballot of Line Item Revision to SEMI D19-0305 (Reapproved 0412) and Ballot of Line Item Revision to SEMI D45-0706 (Reapproved 0412) for Cycle 3-2019

9 Next Meeting and Adjournment

The next meeting is scheduled as follows. See <http://www.semi.org/standards-events> for the current list of events.

The next FPD Materials & Components Japan TC Chapter meeting will be held jointly with FPD Metrology Japan TC Chapter on Friday, May 31, 2019, 14:30-17:00 at SEMI Japan office, Tokyo, Japan



Respectfully submitted by:

Chie Yanagisawa

Manager

SEMI Japan

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Minutes tentatively approved by:

Tadahiro Furukawa (Yamagata University), Co-chair	April 25, 2019
Yoshi Shibahara (FUJIFILM), Co-chair	April 24, 2019

Table 13 Index of Available Attachments#1

<i>Title</i>	<i>Title</i>
01_SEMI Standards Required Elements_August2018_E+J	04_FPD TW Liaison Report_20181221
02_20181012_FPD-M&C_Japan_MeetingMinutes_Final	05_SEMI Staff Report 2019_0205 v1.0a
03_KR_FPDM_2019_Feb	06_6410_BallotReport

#1 Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.